

ABSTRACT OF THE DISCLOSURE

A catadioptric optical system comprising
a first imaging optical system for forming an intermediate
image of a first plane surface, a second imaging optical
5 system for forming a final image of the first plane surface
onto a second plane surface which is substantially
parallel to the first plane surface, and a catadioptric
type optical system disposed in the optical path from the
first plane surface to the second plane surface and
10 including a first reflecting surface which reflects light
coming from through the first plane surface and a second
reflecting surface for directing the light reflected by
the first reflecting surface toward the second plane
surface. At least one of the first and second reflecting
15 surfaces is a concave reflecting surface. All of the
optical elements of the catadioptric optical system are
disposed on a single linear optical axis.

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